$\sim$  What Is Claimed Is:

A benzonaphthalene compound of the formula

R<sub>2</sub>

R<sub>3</sub>

(I)

wherein

R<sub>1</sub> represents (i) -C-R<sub>6</sub> or (ii) -CH<sub>2</sub>OH.

 $R_6$  represents -N or  $OR_7$  wherein  $R_7$  represents hydrogen,

alkyl having 1-20 carbon atoms, monohydroxyalkyl or polyhydroxyalkyl, r' and r" represent hydrogen, lower alkyl, mono or polyhydroxyalkyl, aryl optionally substitued or a residue of an amino acid or a sugar, or together form a heterocycle,

R<sub>2</sub> represents hydrogen, branched or straight chain alkyl having 1-15 carbon atoms, alkoxy having 1-4 carbon atoms or a cycloaliphatic radical,

 $R_3$  represents hydrogen, hydroxy, branched or straight chain alkyl having 1-4 carbon atoms, alkoxy having 1-10 carbon atoms, a cycloaliphatic radical optionally substituted, a thiocycloaliphatic radical, or -O-Si(CH<sub>3</sub>)<sub>2</sub>-R<sub>8</sub> wherein R<sub>8</sub> represents linear or branched lower alkyl, and

 $R_4$  and  $R_5$  each independently represent hydrogen, lower alkyl, hydroxy or lower acyloxy,

or a salt thereof.

- 2. A compound of claim 1 wherein said alkyl is selected from the group consisting of methyl, ethyl, isopropyl, butyl and tert.butyl.
- 3. The compound of claim 1 wherein said alkoxy has 1-10 carbon atoms.
- 4. The compound of claim 3 wherein said alkoxy is selected from the group consisting of methoxy, ethoxy, isopropoxy, hexyloxy and decyloxy.
- 5. The compound of claim 1 wherein said lower acyloxy has 1-4 carbon atoms.
- 6. The compound of claim 5 wherein said lower acyloxy is selected from the group consisting of acetyloxy and propionyloxy.
- 7. The compound of claim 1 wherein said lower monohydroxy-alkyl has 2 or 3 carbon atoms.
- 8. The compound of claim 7 wherein said lower monohydroxy-alkyl is selected from the group consisting of 2-hydroxy ethyl and 2-hydroxy propyl.
- 9. The compound of claim \( \) wherein said polyhydroxyalkyl has 3-6 carbon atoms and 2-5 hydroxy groups.
- 10. The compound of claim 9 wherein said polyhydroxyalkyl is selected from the group consisting of 2,3-dihydroxy propyl, 1,3-dihydroxy propyl or a residue of pentaerythritol.
- 11. The compound of claim 1 wherein said cycloaliphatic radical is selected from the group consisting of 1-methyl cyclohexyl and 1-adamantyl.
- 12. The compound of claim 1 wherein said thiocycloaliphatic radical is 1-adamantylthio.
- 13. The compound of claim 1 wherein r' and r" taken together form a heterocycle selected from the group consisting of piperidino, piperazino, morpholino and pyrrolidino.

14. The compound of claim 1 having the formula

wherein

r' and r" each independently represent hydrogen or lower alkyl, or r' and r" taken together form a morpholino radical,

R', represents hydrogen or lower alkyl,

R'2 represents hydrogen, alkyl, alkoxy or l-adamantyl, and

R'3 represents hydrogen, hydroxy, alkyl, alkoxy or l-adamantylthio.

- 15. The compound of claim 1 selected from the group consisting of
  - (1) 6-(3-methylphenyl)-2-naphthoic acid,
    - (2) the methyl ester of (1),
    - (3) 6-(4-tert.butyl phenyl)-2-naphthoic acid,
    - (4) the methyl ester of (3),
    - (5) 6-(3-tert.butyl phenyl)-2-naphthoic acid,
    - (6) the methyl ester of (5),
    - (7) 6-(3,4-dimethoxy phenyl)-2-naphthoic acid,
    - (8) the methyl ester of (7),
    - (9) 6-[p-(l-adamantylthio)phenyl]-2-haphthoic acid,
    - (10) the methyl ester of (9),

- (11) 6-[3-(1-adamantyl)-4-methoxyphenyl]-2-naphthoic acid,
- (12) the methyl ester of (11).
- (1/3) the methyl ester of 6-[3-(1-adamantyl)-4-tert.butyl-dimethylsilyloxyphenyl]-2-naphthoic acid,
- (14) the methyl ester of 6-[3-(1-adamantyl)-4-hydroxy-phenyl]-2-naphthoic acid,
  - (15)  $6\sqrt{3-(1-adamanty1)-4-hydroxypheny1]-2-naphthoic acid,$
- (16) the methyl ester of 6-[3-(1-adamantyl)-4-decyloxyphenyl]-2-naphthoic acid,
  - (17) 6-[3-\(1-adamantyl)-4-decyloxyphenyl]-2-naphthoic acid,
- (18) the methyl ester of 6-[3-(1-adamantyl)-4-hexyloxy-phenyl]-2-naphthoic acid,
  - (19) 6-[3-(1-adamantyl)-4-hexyloxyphenyl]-2-naphthoic acid,
- (20) the methyl ester of 6-[3-(1-adamantyl)-4-methoxy-phenyl]-4-acetoxy-1-methyl-2-naphthoic acid,
- (21) 6-[3-(1-adamantyl)-4-methoxyphenyl]-4-hydroxy-1-methyl-2-naphthoic acid,
- (22) the methyl ester of 6-[3-(1-adamantyl)-4-methoxy-phenyl]-4-hydroxy-1-methyl-2-naphthoic acid,
- (23) the methyl ester of 6-[3-(1-adamantyl)-4-methoxy-phenyl]-1-methyl-2-naphthoic acid,
- (24) 6-[3-(1-adamantyl)-4-methoxyphenyl]-1-methyl-2-naphthoic acid,
- (25) 6-[3-(1-adamantyl)-4-methoxyphenyl]-2-naphthalene methanol,
- (26) the ethylamide of 6-[3-(1-adamantyl)-4-methoxyphenyl]2-naphthoic acid,
- (27) the morpholide of 6-[3-(1-adamantyl)-4-methoxyphenyl]2-naphthoic acid,

- (28) the methyl ester of 6-[3-tert.butyl-4-methoxyphenyl]-2-naphthoic acid,
  - (29) 6-(3-tert.butyl-4-methoxyphenyl)-2-naphthoic acid,
- (30) the methyl ester of 6-[3-(1,1-dimethyldecyl)-4-methoxyphenyl]-2-naphthoic acid, and
- (31) 6-[3-(1,1-dimethyldecyl)-4-methoxyphenyl]-2-naphthoic acid.
- 16. A process for preparing the compound of claim 1 comprising coupling, in an anhydrous solvent and in the presence of, as a reaction catalyst, a transition metal or a complex thereof, a magnesium, lithium or zinc derivative of a compound of the formula

$$R_2$$

with a halogenated naphthalene compound of the formula

wherein

 $R_1$  to  $R_5$  have the same meaning as set forth in claim 1, and X and Y represent Cl, Br, F or I.

17. The process of claim 16 carried out at a temperature ranging from -20 to +30°C.

- 18. A medicinal composition containing as the active principle thereof a compound of claim 1 or a salt thereof.
- 19. A pharmaceutical composition comprising a pharmaceutically acceptable vehicle suitable for enteral, parenteral, topical or ocular administration and an effective amount of as the active principle at least one compound of claim 1 or a salt thereof.
- 20. The pharmaceutical composition of claim 19 wherein said active principle is present in an amount ranging from 0.0005 to about 5 weight percent based on the total weight of said composition.
- 21. A process for the treatment of a dermatologic, rheumatismal, respiratory or ophthalmologic disease comprising administering to a person suffering from said disease an effective amount of the composition of claim 18.
- 22. A cosmetic composition for body and hair hygiene comprising a cosmetically acceptable vehicle and an effective amount as the active principle at least one compound of claim 1 or a salt thereof.
- 23. The cosmetic composition of claim 22 wherein said active principle is present in an amount ranging from 0.0005 to 2 weight percent based on the total weight of said composition.
- 24. The cosmetic composition of claim 23 wherein said active principle is present in an amount ranging from 0.01 to 1 weight percent based on the total weight of said composition.